

Figure 1a

hAMGEN2520-59 Coding region and amino acid sequence.

Seq ID NO:

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      10      20      30      40      50      60
1 ATGCGAGCCACCCCTCTGGCTGCTCCTGCGGGTTCCCTGTCCAGGAAGAAGCGGTTGGAG
2 M R A T P L A A P A G S L S R K K R L E
      70      80      90     100     110     120
   TTGGATGACAACTTAGATAACCGAGCGTCCCGTCCAGAAACGAGCTCGAAGTGGGCCCCAG
   L D D N L D T E R P V Q K R A R S G P Q
      130     140     150     160     170     180
   CCCAGACTGCCCCCTGCCTGTTGCCCTGAGCCACCTACTGCTCCAGATCGTGCAACT
   P R L P P C L L P L S P P T A P D R A T
      190     200     210     220     230     240
   GCTGTGGCCACTGCCTCCCGTCTTGGGCCCTATGTCCTCCTGGAGCCCGAGGAGGGCGGG
   A V A T A S R L G P Y V L L E P E E G G
      250     260     270     280     290     300
   CGGGCCTACCGGGCCCTGCACTGCCCTACAGGCACTGAGTATACCTGCAAGGTGTACCCC
   R A Y R A L H C P T G T E Y T C K V Y P
      310     320     330     340     350     360
   GTCCAGGAAGCCCTGGCCGTGCTGGAGCCCTACGCGCGGCTGCCCCCGCACAAAGCATGTG
   V Q E A L A V L E P Y A R L P P H K H V
      370     380     390     400     410     420
   GCTCGGCCCCACTGAGGTCCTGGCTGGTACCCAGCTCCTCTACGCCTTTTTCACTCGGACC
   A R P T E V L A G T Q L L Y A F F T R T
      430     440     450     460     470     480
   CATGGGGACATGCACAGCCTGGTGCGAAGCCGCCACCGTATCCCTGAGCCTGAGGCTGCC
   H G D M H S L V R S R H R I P E P E A A
      490     500     510     520     530     540
   GTGCTCTTCCGCCAGATGGCCACCGCCCTGGCGCACTGTCACCAGCACGGTCTGGTCTCTG
   V L F R Q M A T A L A H C H Q H G L V L
      550     560     570     580     590     600
   CGTGATCTCAAGCTGTGTGCTGCTTTGTCTTCGCTGACCGTGAGAGGAAGAAGCTGGTGTG
   R D L K L C R F V F A D R E R K K L V L
      610     620     630     640     650     660
   GAGAACCTGGAGGACTCCTGCGTGCTGACTGGGCCAGATGATTCCCTGTGGGACAAGCAC
   E N L E D S C V L T G P D D S L W D K H
      670     680     690     700     710     720
   GCGTGCCCAGCCTACGTGGGACCTGAGATACTCAGCTCACGGGCCTCATACTCGGGCAAG
   A C P A Y V G P E I L S S R A S Y S G K
      730     740     750     760     770     780
   GCAGCCGATGTCTGGAGCCTGGGCGTGGCGCTCTTCACCATGCTGGCCGGGCACTACCCC
   A A D V W S L G V A L F T M L A G H Y P
      790     800     810     820     830     840
   TTCCAGGACTCGGAGCCTGTCCTGCTCTTCGGCAAGATCCGCCGCGGGGCCTACGCCTTG
   F Q D S E P V L L F G K I R R G A Y A L
      850     860     870     880     890     900
   CCTGCAGGCCTCTCGGCCCCCTGCCCCGCTGTCTGGTTTCGCTGCCTCCTTCGTGCGGAGCCA
   P A G L S A P A R C L V R C L L R R E P
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Figure 1b

hAMGEN2520-59 Coding region and amino acid sequence
(continued).

Seq ID NO:

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          910          920          930          940          950          960
1 GCTGAACGGCTCACAGCCACAGGCATCCTCCTGCACCCCTGGCTGCGACAGGACCCGATG
2 A E R L T A T G I L L H P W L R Q D P M
          970          980          990          1000          1010          1020
   CCCTTAGCCCCAACCCGATCCCATCTCTGGGAGGCTGCCCAGGTGGTCCCTGATGGACTG
P L A P T R S H L W E A A Q V V P D G L
          1030          1040          1050          1060          1070
GGGCTGGACGAAGCCAGGGAAGAGGAGGAGACAGAGAAGTGGTTCTGTATGGCTAG
G L D E A R E E E G D R E V V L Y G
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Figure 2a

2520-59	1	50
Genbank BAB15597	(1)	-----
Patented Seq: NO 1367	(1)	-----
Patented SEQ ID NO:1102	(1)	LRFASPGAGRARDSQKWRRLRARPLLPGQGSWAGIPSSAAAQRAG
JJ503-KS	(1)	-----
Consensus	(1)	-----GQGSWAGIPSSAAAQRAG
2520-59	51	100
Genbank BAB15597	(1)	-----MRATPLAAPAGSLSRKKRLELDDNLDLT
Patented Seq: NO 1367	(1)	-----MRATPLAAPAGSLSRKKRLELDDNLDLT
Patented SEQ ID NO:1102	(51)	PPAGALEALSPGGARAHAEERRGEMRATPLAAPAGSLSRKKRLELDDNLDLT
JJ503-KS	(20)	PPAGALEALSPGGARAHAEERRGEMRATPLAAPAGSLSRKKRLELDDNLDLT
Consensus	(51)	MRATPLAAPAGSLSRKKRLELDDNLDLT
2520-59	101	150
Genbank BAB15597	(28)	ERPVKRARSQPRLPPCLLPLSPPTAPDRATAVATASRLGPYVLLLEPE
Patented Seq: NO 1367	(28)	ERPVKRARSQPRLPPCLLPLSPPTAPDRATAVATASRLGPYVLLLEPE
Patented SEQ ID NO:1102	(101)	ERPVKRARSQPRLPPCLLPLSPPTAPDRATAVXTXSRXXXVLLLEAR
JJ503-KS	(1)	-----
Consensus	(70)	ERPVKRARSQPRLPPCLLPLSPPTAPDRATAVATASRLGPYVLLLEPE
	(101)	ERPVKRARSQPRLPPCLLPLSPPTAPDRATAVATASRLGPYVLLLEPE

Figure 2b

2520-59	(78)	151	EGGRAYRALHCPTGTEYTKVYPVQ	200
Genbank BAB15597	(78)		EGGRAYQALHCPTGTEYTKVYPVQ	
Patented Seq: NO 1367	(151)		RXA-	
Patented SEQ ID NO:1102	(1)		-----	
JJ503-KS	(120)		EGGRAYQALHCPTGTEYTKVYPVQ	GP
Consensus	(151)		EGGRAYQALHCPTGTEYTKVYPVQ	
		201		250
2520-59	(128)		AGTQLLYAFFTRTHGDMHSLVRSRHR	
Genbank BAB15597	(128)		AGTQLLYAFFTRTHGDMHSLVRSRHR	
Patented Seq: NO 1367	(154)		-----	
Patented SEQ ID NO:1102	(3)		GWYPAPLRLFHSDPWGHAQPGAKRHR	
JJ503-KS	(170)		AGTQLLYAFFTRTHGDMHSLVRSRHR	
Consensus	(201)		AGTQLLYAFFTRTHGDMHSLVRSRHR	
		251		300
2520-59	(178)		LVLRLDLKCRFVFADRRERKKLVLEN	
Genbank BAB15597	(178)		LVLRLDLKCRFVFADRRERKKLVLEN	
Patented Seq: NO 1367	(154)		-----	
Patented SEQ ID NO:1102	(53)		LVLRLDLKCRFVFADRRERKKLVLEN	
JJ503-KS	(220)		LVLRLDLKCRFVFADRRERKKLVLEN	
Consensus	(251)		LVLRLDLKCRFVFADRRERKKLVLEN	
		301		350
2520-59	(228)		PEILSSRASYSGKAADVWSLGLVAL	
Genbank BAB15597	(228)		PEILSSRASYSGKAADVWSLGLVAL	
Patented Seq: NO 1367	(154)		-----	
Patented SEQ ID NO:1102	(103)		PEILSSRASYSGKAADVWSLGLVAL	
JJ503-KS	(270)		PEILSSRASYSGKAADVWSLGLVAL	
Consensus	(301)		PEILSSRASYSGKAADVWSLGLVAL	

Figure 2c

2520-59	(278)	351	400
Genbank BAB15597	(278)	YALPAGLSAPARCLVRCLLRREPAERLTATGILLHPWLRQDPMPLAPTRS	
Patented Seq: NO 1367	(154)	YALPAGLSAPARCLVRCLLRREPAERLTATGILLHPWLRQDPMPLAPTRS	
Patented SEQ ID NO:1102	(153)	YALPAGLSAPARCLVRCLLRREPAERLTATGILLHPWLRQDPMPLAPTRS	
JJ503-KS	(320)	YALPAGLSAPARCLVRCLLRREPAERLTATGILLHPWLRQDPMPLAPTRS	
Consensus	(351)	YALPAGLSAPARCLVRCLLRREPAERLTATGILLHPWLRQDPMPLAPTRS	
		401	431
2520-59	(328)	HLWEAAQVVPDGLGLDEAREEEEGDREVVLVYG	
Genbank BAB15597	(328)	HLWEAAQVVPDGLGLDEAREEEEGDREVVLVYG	
Patented Seq: NO 1367	(154)	HLWEAAQVVPDGLGLDEAREEEEGDREVVLVYG	
Patented SEQ ID NO:1102	(203)	HLWEAAQVVPDGLGLDEAREEEEGDREVVLVYG	
JJ503-KS	(361)	HLWEAAQVVPDGLGLDEAREEEEGDREVVLVYG	
Consensus	(401)	HLWEAAQVVPDGLGLDEAREEEEGDREVVLVYG	